

Base Year: 1999

By: M. Nguyen

## SOURCE INVENTORY

### CATEGORY # 759

#### ANIMAL WASTE - LIVESTOCK

#### 1999 EMISSIONS

##### *Introduction*

Emissions from this category are from waste products of animal livestock including cattle, hogs, sheep, horses, and others including chickens, dove, ducks, geese, pheasants, pigeons, rabbits, quail, turkey.

##### *Methodology*

The livestock population was determined from Agricultural Crop Report of each of the counties in the Bay Area. If not available, estimates were made for poultry, based on dollar values of production. Emission factors for total organic gases were taken from the report on "Evaluation of Emissions from Selected Uninventoried Sources in the State of California", 1988, by Dickson, R. and Tate, S.

Number of Heads					
County	Cattle	Hogs/Pigs	Sheep	Horses	Misc.
Alameda	16,442	50	536	100	43,981
Contra Costa	16,600	300	nil	100	35,447
Marin	20,514	nil	7,496	100	85,994
Napa	7,313	2,600	2,200	100	52,284
San Francisco	nil	nil	nil	100	Nil
San Mateo	2,400	1,252	1,010	200	10,000
Santa Clara	17,250	600	1,500	100	60,000
Solano	12,500	100	22,500	1,800	6,500
Sonoma	29,363	1,566	8,154	4,049	188,482
<b>Em.</b> (Lbs/head)	<b>Factors</b> 160.8	26.0	12.2	83.6	2.4

##### *Monthly Variation*

Monthly distribution was estimated evenly over the twelve months.

### *County Distribution*

The county distribution was based on the cattle population for the nine counties, and correspondingly, showed: Alameda-9.2%, Contra Costa-5.0%, Marin-10.4%, Napa-1.8%, San Francisco-0%, San Mateo-3.9%, Santa Clara-31.7%, Solano-6.4%, and Sonoma-31.6%.

## **TRENDS**

### *History*

Emissions through the years were estimated based on the ARB's growth profile on dollar values of Agricultural stock for each county.

### *Growth*

Projections to year 2030 was based on the ARB's growth profile.